

AD-A100 060

TEXAS UNIV AT AUSTIN APPLIED RESEARCH LABS
SONAR TEST AND TEST INSTRUMENTATION SUPPORT. (U)

OCT 80 D D BAKER, B O MOSES, J L SHOREY

F/G 17/1

N00140-76-C-6487

NL

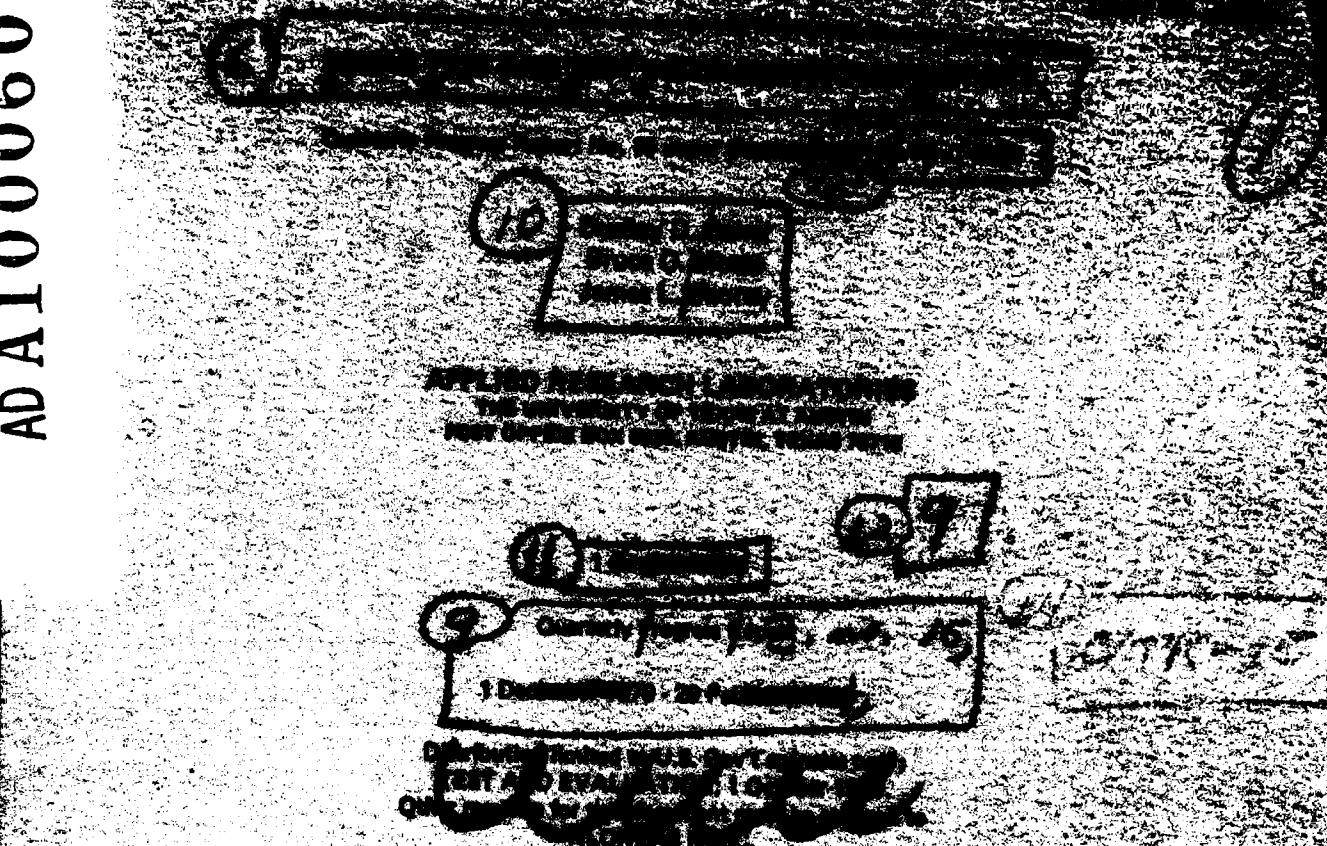
UNCLASSIFIED

1 of 1
44 UC30



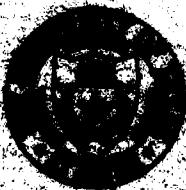
AD A100060

FILE COPY



Production
NEW LONDON LABORATORY
NAVAL UNDERWATER SYSTEMS CENTER
NEW LONDON, CT 06320

DTIC
5000



81 6 11 083

Approved for public release; distribution unlimited.

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
		AD-A100 060
4. TITLE (and Subtitle) SONAR TEST AND TEST INSTRUMENTATION SUPPORT		5. TYPE OF REPORT & PERIOD COVERED quarterly progress report 1 Dec 79 - 29 Feb 80
		6. PERFORMING ORG. REPORT NUMBER QPR No. 15
7. AUTHOR(s) Dudley D. Baker Bruce O. Moses James L. Shorey		8. CONTRACT OR GRANT NUMBER(s) N00140-76-C-6487
9. PERFORMING ORGANIZATION NAME AND ADDRESS Applied Research Laboratories The University of Texas at Austin Austin, TX 78712		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS New London Laboratory Naval Underwater Systems Center New London, CT 06320		12. REPORT DATE 1 October 1980
		13. NUMBER OF PAGES 9
14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)		

TABLE OF CONTENTS

	<u>Page</u>
I. INTRODUCTION	1
II. SPECIAL PURPOSE PASSIVE SONAR SYSTEMS SUPPORT	3
III. SONAR INSTRUMENTATION TEST AND EVALUATION	5
IV. AN/WQM-5() PROGRAM	7

I. INTRODUCTION

Applied Research Laboratories, The University of Texas at Austin (ARL:UT), was awarded Contract N00140-76-C-6487, sponsored by New London Laboratory, Naval Underwater Systems Center (NLONLAB NUSC), effective 1 June 1976. Some of the work under this contract represents a follow-on effort to previous work sponsored by NLONLAB NUSC under Contract N00140-74-C-6316.

The work under Contract N00140-76-C-6487 was originally divided into six task areas that focused on technical support in areas of sonar technology.

- I. AN/FQM-10(V) Sonar Test Set Field Support
- II. Transducer Repair Facility Test Site Field Support
- III. AN/WQM-5 Sonar Test Set Field Support
- IV. Special Purpose Passive Sonar Systems Support
- V. Sonar Instrumentation Test and Evaluation
- VI. Study of Towed Line Array Acoustical Testing at Transducer Repair Facilities

Additional tasks were added by contract modifications, as follows.

- VII. AN/SQM-() Sonar Noise Measuring Set Development (Mod P00019)
- VIII. AN/WQM-5() Sonar Test Set Development (P00019)
- IX. Sonar Dome Maintenance Documentation Support (P00019)
- X. AN/BQQ-5 Power Supply Development (P00019) (follow-on work under Contracts N00024-77-C-6035 and similar effort under Contract N00123-79-C-0459)
- XI. AN/BQQ-6 Test Instrumentation (P00035)
- XII. AN/WLR-12 Calibration (P00033)

This report is Quarterly Progress Report No. 15 under Contract N00140-76-C-6487, for the period 1 December 1979 - 29 February 1980.

II. SPECIAL PURPOSE PASSIVE SONAR SYSTEMS SUPPORT

No work was performed on this task during the report period.

III. SONAR INSTRUMENTATION TEST AND EVALUATION

Work is continuing on the operating system and user calibration software for the AN/GQM-2 Transducer Test Set. Delivery of the completed software is expected during the next report period.

IV. AN/WQM-5() PROGRAM

A. Field Change Program

During this report period, ARL:UT delivered one AN/WQM-5A, Ser A2, to NAVSHIPYD CHASN. Thus far, a total of 16 modified sets have been delivered.

B. Field Support Services

Various pieces of in-house equipment that were needed to accomplish test set repairs were sent to MOTU 4 at New London, CT, and to NAVSHIPYDs PHILA and PTSMH.

1 October 1980

DISTRIBUTION LIST FOR
QUARTERLY PROGRESS REPORT NO. 15
UNDER CONTRACT N00140-76-C-6487
1 December 1979 - 29 February 1980

Copy No.

1 - 3 Receiving Officer
New London Laboratory
Naval Underwater Systems Center
Building 43
New London, CT 06320
Attn: Code NA401

4 Office of Naval Research
Resident Representative
Room 582, Federal Building
Austin, TX 78701

5 Electroacoustics Group, ARL:UT

6 G. Earle English, ARL:UT

7 James L. Shorey, ARL:UT

8 Library, ARL:UT

PREVIOUS PAGE BLANK-NOT FILLED

**DATE
ILME**